# Andrew Schechtman-Rook

rook166@gmail.com                                                    https://github.com/AndrewRook
(917)-836-4267

## EXPERIENCE

**Director, Data Science**                                                          2023-Present
Capital One

- Designed and built a package to streamline core business metrics SQL calculations, used by over 50 analysts for critical reporting needs.
- Owned the design, implementation, and upkeep of the DS Technical Interview, a key interview given to every data science candidate in the US.

**Senior Manager, Data Science**                                                    2018-2023
Capital One

- Developed the longest-lived, most successful internal data science tool in the company, used in production models by dozens of data scientists across lines of business.
- Guided ongoing development of the core credit card valuations model scoring platform, delivering regular releases of new and updated models while improving the robustness and maintainability of platform infrastructure.
- Led technical development of model monitoring tools, mentoring three junior data scientists to deliver a maintainable package on time and to spec.
- Deployed the first cloud-based credit card underwriting model in the company via a dockerized Python API, with an estimated incremental value of $35MM per year.

**Manager, Data Science**                                                           2016-2018
Capital One

- Led development of a prototype language-agnostic automated machine learning model deployment framework for cloud-based applications, influencing the development direction for the company-wide credit card application processing platform.

**Principal Data Scientist**                                                        2014-2016
Capital One Labs

- Implemented a novel approach to deliver internal technical trainings, providing over 5000 hours of classes with no instructors.
- Programmed and deployed an interactive course completion dashboard using Flask and dc.js to provide progress reports to individual students as well as company leadership.

## TECHNICAL SKILLS

**Programming:** Python (numpy, scipy, pandas, sklearn, xgboost, matplotlib), shell scripting
**Databases, Orchestration, Web Design:** Flask, MySQL/PostgreSQL, Prefect, Snowflake
**Cloud Computing/Devops:** AWS, Docker, CircleCI, Jenkins
**Operating Systems:** Linux, Mac OSX
**Data Analysis:** Parallel and distributed computing, machine learning, nonlinear optimization

## EDUCATION

PhD, Astronomy, University of Wisconsin-Madison                                      December 2013
MS, Astronomy, University of Wisconsin-Madison                                       June 2009
BS, Astronomy, Case Western Reserve University                                       May 2007